Comparisons of Job Characteristics

Focus Occupation: Heating, Air Conditioning, and Refrigeration Mechanics and Installers

(49-9021)

Associated Occupation: Electricians (47-2111)

Compare Knowledge
Compare Skills
Compare Abilities
Compare Detailed Work Activities
Compare Tools and Technologies

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 86

Focus Occupation: Heating, Air Conditioning, and Refrigeration Mechanics and Installers (49-9021)

Associated Occupation: Electricians (47-2111)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation	
Mechanical	6.8	16.5	20.1	>>	Current knowledge level is likely more than sufficient	
Building and Construction	4.0	14.6	12.5	<	Expanded education and/or training may be required	
Mathematics	9.2	14.5	12.3	<	Expanded education and/or training may be required	
Design	5.2	13.4	10.3	<<	Extensive education and/or training may be required	
Administration and Management	8.4	12.2	9.6	<	Expanded education and/or training may be required	
Engineering and Technology	5.7	11.8	11.1	0	Current knowledge level may be sufficient	
Physics	4.3	10.9	11.4	0	Current knowledge level may be sufficient	
Telecommunications	3.9	10.4	3.9	<<	Extensive education and/or training may be required	

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 87

Focus Occupation: Heating, Air Conditioning, and Refrigeration Mechanics and Installers (49-9021) Associated Occupation: Electricians (47-2111)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Troubleshooting	4.5	12.3	13.3	Current skill level may be sufficient	
Repairing	3.4	11.6	13.5	> Skill level is likely sufficient	
Quality Control Analysis	5.9	11.0	11.2	Current skill level may be sufficient	

Equipment Maintenance	3.5	10.3	12.3	>	Skill level is likely sufficient
Installation	1.7	9.4	12.6	>>	Skill level is likely more than sufficient
Equipment Selection	3.3	8.4	9.4	>	Skill level is likely sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O^*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 92

Focus Occupation: Heating, Air Conditioning, and Refrigeration Mechanics and Installers (49-9021) Associated Occupation: Electricians (47-2111)

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation	
Visual Color Discrimination	6.4	12.8	10.3	<	Some improvement in abilities may be required	
Visualization	7.5	12.2	12.4	0	Current ability level may be sufficient	
Finger Dexterity	7.6	11.8	10.7	<	Some improvement in abilities may be required	
Extent Flexibility	4.8	10.4	11.8	>	Current ability level is likely sufficient	
Gross Body Equilibrium	3.2	8.2	7.1	<	Some improvement in abilities may be required	
Speed of Limb Movement	3.2	6.6	5.9	<	Some improvement in abilities may be required	
Glare Sensitivity	2.6	5.9	5.1	<	Some improvement in abilities may be required	
Sound Localization	2.2	5.3	4.7	<	Some improvement in abilities may be required	

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 89

Focus Occupation: Heating, Air Conditioning, and Refrigeration Mechanics and Installers (49-9021) Associated Occupation: Electricians (47-2111)

Work Activities	Exclusivity of Activity
Adhere to safety procedures	12
Analyze operation of malfunctioning electrical or electronic equipment	68
Bend tubing or conduit	81
Direct and coordinate activities of workers or staff	3
Fabricate, assemble, or disassemble manufactured products by hand	11
Install electrical conduit or tubing	81
Install electrical fixtures or components	71
Install or replace meters, regulators, or related measuring or control devices	66
Install/connect electrical equipment to power circuit	57
Install/string electrical or electronic cable or wiring	76

Lay out electrical wiring for buildings, etc.	95
Move or fit heavy objects	8
Order or purchase supplies, materials, or equipment	35
Perform safety inspections in industrial, manufacturing or repair setting	32
Plan layout of electrical/electronic equipment installation	89
Read blueprints	10
Read technical drawings	7
Repair or adjust measuring or control devices	71
Repair or replace electrical wiring, circuits, fixtures, or equipment	49
Replace electronic components	63
Solder electrical or electronic connections or components	55
Test electrical/electronic wiring, equipment, systems or fixtures	54
Test electronic or electrical circuit connections	66
Understand service or repair manuals	40
Use electrical or electronic test devices or equipment	40
Use hand or power tools	2
Use high voltage apparatus	76
Use soldering equipment	44
Use voltmeter, ammeter, or ohmmeter	52

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 88

Focus Occupation: Heating, Air Conditioning, and Refrigeration Mechanics and Installers (49-9021) Associated Occupation: Electricians (47-2111)

Tools and Technologies	Exclusivity
Aerial lifts	13
Bandsaws and accessories	26
Business function specific software	1
Compressors	9
Computer printers	2
Computers	1
Content authoring and editing software	1
Cutting and crimping and punching tools	3
Cutting tools	18
Data management and query software	1
Earth moving machinery	11
Electrical measuring and testing equipment	7
Face and head protection	7
Forming tools	2
Holding and clamping tools	3
Indicating and recording instruments	2
Industry specific software	1

Labeling machines	33
Ladders and scaffolding	6
Length and thickness and distance measuring instruments	2
Lifting equipment and accessories	3
Light and wave generating and measuring equipment	4
Machine tools	7
Marking tools	11
Measuring and layout tools	3
Mechanical instruments	14
Personal communication devices	2
Power tools	2
Pressure measuring and control instruments	10
Prying and bending tools	10
Pulling tools	31
Respiratory protection	6
Safety apparel	4
Soldering and brazing and welding machinery and supplies	6
Surveillance and detection equipment	11
Temperature and heat measuring instruments	6
Tool attachments and accessories	12
Viewing and observing instruments and accessories	4
Vision protection and accessories	3
Wrenches and drivers	2

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.